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NATIONAL ELECTRICAL EXPOSITION—1896.



Compliments of

The Bossert Electric Construction Co.



WM. F. BOSSERT, Prest.

SETH C. ADAMS, Sec'y and Treas.

H. P. CROUSE, Vice Prest.

## Descriptive Catalogue and Price List . . .

OF THE

# Bossert Electric Construction Co.

SOLE MANUFACTURERS OF



STANDARD, IRON ARMORED, SLATE LINED, PANEL,  
DISTRIBUTING, FUSE, MAIN, and FEEDER TERMI-  
NALS ; Also, BRANCH JUNCTION AND OUTLET  
BOXES for Combination Fixtures ; STEEL DRAWN  
SWITCH, WALL, AND CEILING OUTLET BOXES for  
Brass and Iron Armored Conduit Work.

Office and Works :

— UTICA, N. Y. —



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## TO ARCHITECTS.

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BEING mindful of the rapid strides made by the architects of the United States for the preservation of life and property in the installing of electric light, and their desire for the latest and most approved method in the same, both for the convenience in handling and safety in construction, we earnestly solicit a careful inspection of our goods by them.

## ❧ Preface. ❧

❧ OUR desire in publishing this Catalogue, is two-fold. In response to numerous inquiries of possible purchasers, we wish to give a more complete description of the goods which we manufacture, than is practicable in an ordinary circular or letter, and with the hope of increasing the usefulness, and explaining the simplicity of our goods, we are pleased to share our knowledge and experience with all those who are interested, as well as those who may favor us with their orders. Having been electrical contractors for some years, and in the electrical world since 1878, we feel that we are justified in saying that we understand the wants and requirements of electrical contractors, as well as all those who come in touch with our goods. Our goods consist of everything in this particular line which an electrical contractor can desire or use, and with the facilities which we have at hand, using none but the best material, and being surrounded with skilled and experienced workmen, we have no hesitancy in saying to the public that our goods are unsurpassed in workmanship and material, and each in its particular place will supply a long felt want in the electrical trade. It is our purpose in our next catalogue, to show cuts of panel, distributing, terminal and fuse boxes for three and five wire systems, with and without switches for branch circuits, and in fact any box which an electrical contractor may be called upon to furnish. We now manufacture panel and distributing boards for from 4 to 36 circuits, and 2, 3, and 4-way terminal boards for either two or three wire systems. In our panel and distributing boxes we use nothing but carefully selected slate, the contact pieces or buss-bars in the same are made of one piece of bronze casting, no yellow brass being used. The box itself being iron and steel is strictly fire-proof, thus the advantages of these appliances, over similar goods on the market at the present time can readily be seen.

In figures No. 13, 14, and 15, we present to architects and electrical contractors an article which will supercede everything of its shape and use at present in the market. We have, at considerable expense, secured special tools and machinery to manufacture above enumerated articles from one piece of sheet steel, producing thereby a uniform, light and indestructible outlet box to take the place of an imperfect, cumbersome, ill-fitting, breakable cast-iron box which often has to be sent to a machine shop at extra expense to have holes drilled, if, as is very often the case, opening for conduit made by iron moulder is at the wrong place. In our steel-drawn boxes a number of openings in back and sides for admission of conduit are allowed, but the same are, with the exception of one or two, hermetically sealed again with steel plugs. Should the wrong hole be closed, then all the workman will have to do is to drive out plug and insert same again in opening left, thereby maintaining a moisture-proof box and saving a great deal of vexation, delay and extra expense.

Our steel-drawn boxes are enameled on both sides to insulate metal of box and effectually prevent same from rusting. All information about our goods cheerfully furnished, and correspondence solicited.

## Ten Facts to be Observed.

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1. Use Catalogue number in ordering. If you cannot find what is wanted, mail description and sketch of article desired.
2. If goods are made according to specifications and drawings mailed by you, and you find on receipt of same that you have made a mistake, we are not to blame.
3. A poor drawing is far better than none at all. Always remember to give size and kind of conduit used.
4. Bear in mind that we have no extra time to solve puzzles.
5. A small charge for boxing is made. Be sure to state route by which goods are to be shipped, and in all cases whether by freight or express.
6. To avoid delay, either cash or satisfactory references must accompany first order.
7. Good care is taken in packing goods, and receipts are taken for all goods forwarded "in good condition." Here our responsibility ceases.
8. Accounts are payable in 30 days, unless otherwise arranged, from date of invoice. Monthly accounts on the 15th of each following month. If above rule is not observed, accounts are subject to sight draft without notice.
9. Discounts according to quantity ordered.
10. Always remember us in ordering your goods.



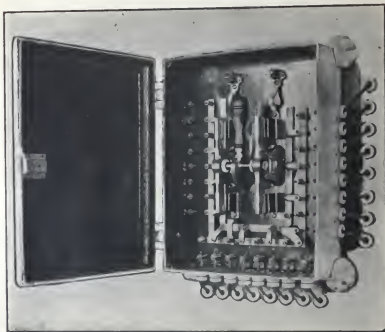
## Ten Points of Merit of Our Goods.

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1. A continuous raceway of iron or brass armored conduit is maintained by means of this system from one box to another—no joining of one material with another whereby the desired object of a continuous system is destroyed.
2. These boxes are entirely self-contained—being furnished with all necessary fuse connections and wire terminals for main and branch circuits.
3. It is unnecessary for an electric contractor in making his estimate to include uncertain figures for cabinet work—as no carpenter work is required, the boxes being furnished with ornamental-hinged cover. Also if box should not perfectly close the opening in wall, an ornamental metallic mat can be furnished at small additional expense.
4. There can be absolutely no danger of breakage of panel board in fastening same or by the settling of walls, as the panel board is encased in an iron box.
5. No undue resistance in panel board—very often caused by means of poor connections—the projections leading to branch circuits and main wire terminals are one piece of bronze casting.
6. The fastening of wires and fuses is easily made and is permanent. Double pole fuse connections are provided for each main and branch circuit.
7. A specially devised double pole knife switch from 100-500 amp., arranged so that the throwing “on” or “off” of current will not interfere with the closing of door. Can be furnished with each main junction box if desired.
8. For so-called “concealed” wiring these boxes, *i. e.*, panel boards, fill a long felt want—as they supersede the placing of fuse-blocks and switches in a poorly protected wooden box.
9. An individual switch can be provided inside of box for each branch circuit.
10. All parts connected with current are securely fastened to carefully selected slate and every care is taken to make these boxes as safe and secure as possible.

FIG. No. 1.

Patented January 7, 1896.



OUTSIDE DIMENSIONS.

Length, 16 in.	Width, 12½ in.	Depth, 4½ in.	
Distance from front to centre of Conduit, .....			2½ in.
Distance from back to centre of Conduit, .....			1½ in.

## *Description of Fig. No. 1.*

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**D**ISTRIBUTING Box shown on opposite page is intended to be used for "concealed" work, and arranged for 12 branch circuits. It is entirely made of iron, and contains main and branch circuit terminals, also binding posts for main and branch wires, all conveniently arranged. All fuse terminals are calculated to receive standard fuse links. The box is also provided with a specially designed 100 amp. dbl. pole knife switch; the operation of same does not interfere with closing and locking of door, whether circuit is thrown "on" or "off." As will be seen from cut, the box is provided with ornamental iron door and lock. Above box can be furnished from 6 to 12 circuits, with or without main switch, for either brass or iron armored conduit work.

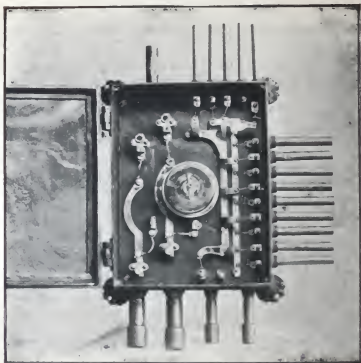
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### **PRICE.**

12-Circuit Box, without switch, plain slate, metal work dipped,.....	\$15.00
12-Circuit Box, without switch, enameled slate, metal work dipped,.....	16.50
12-Circuit Box, without switch, enameled slate, metal work polished,.....	20.00
12-Circuit Box, with 100 amp. dbl. pole knife switch, enameled slate, metal work polished and laquered, .....	25.00

*Discounts according to quantity.*

**FIG. No. 2.**  
**Patented January 7, 1896.**



**OUTSIDE DIMENSIONS.**

Length, 16 in.	Width, $12\frac{1}{4}$ in.	Depth, $4\frac{1}{2}$ in.
Distance from front to centre of Conduit,	...	$2\frac{3}{4}$ in.
Distance from back to centre of Conduit,	...	$1\frac{1}{4}$ in.

## *Description of Fig. No. 2*

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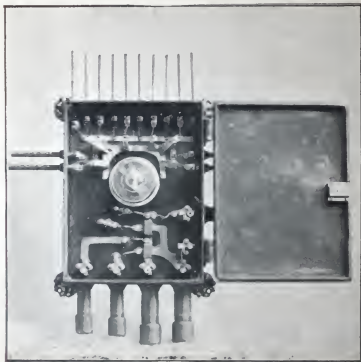
THIS cut represents a main and feeder terminal, also branch distributing box for 7 branch circuits. It is equally adaptable for either brass or iron armored conduit. It is provided with wire and fuse terminals, also with a 50 amp. snap switch to control all branch circuits. The box is of iron, fire-proof, and with ornamental iron door and lock. The buss bars, wire and fuse terminals are fastened to carefully selected slate, and are of bronze metal. Main and sub-feeders can be arranged to suit circumstances.

### PRICE.

Box as shown in cut, with switch, plain slate, metal dipped, . . . . .	\$18.50
Box as shown in cut, without switch, enameled slate, metal work polished and laquered, . . . . .	17.50

**FIG. No. 3.**

**Patented January 7, 1896.**



**DIMENSIONS SAME AS BOXES NOS. 1 AND 2.**

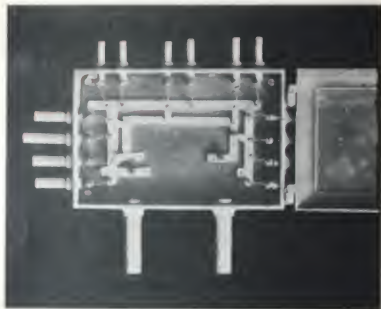
### *Description of Fig. No. 3.*

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THIS cut is similar to Fig. No. 2 as to mains, sub-mains and branches. The arrangement of fuse and wire terminals is, as can be seen, different from Fig. No. 2, and verifies what is said in description of Fig. No. 2—that box can be arranged to suit circumstances.

*Price same as Fig. No. 2.*

FIG. No. 4.  
Patented January 7, 1896.



DIMENSIONS.

Length, 3½ in.	Width, 3½ in.	Depth, 2½ in.
Distance from front terminal to Contact, 1 in.		
Distance from back to spring of Contact, 1½ in.		



### *Description of Fig. No. 4.*

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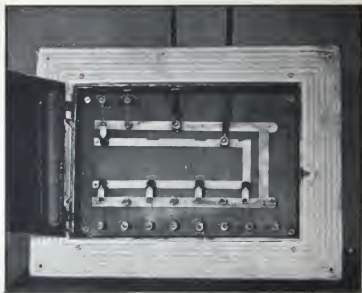
THE Box on opposite page is, in its construction, similar to boxes shown on cuts No. 2 and No. 3. From dimensions given, it will be seen that it is smaller, and is more especially adapted as a distributing board for private residences. No allowance is made in this box for main switch. It is fire-proof, being wholly constructed of iron and slate, and is equally useful for concealed work, and iron or brass armored conduit. The maximum capacity of this box is eight, and the minimum four circuits.

#### PRICE.

Box as shown, plain slate, metal dipped, .....	\$ 9.00
Enameled slate,.....	10.00
Enameled slate, metal work polished,.....	12.00

FIG. No. 5.

Patented January 7, 1896.



DIMENSIONS OF BOX SAME AS FIG. No. 4.

DIMENSIONS OF IRON MAT.

Length,  $18\frac{1}{2}$  in.

Width, 14 in.

Depth,  $\frac{1}{2}$  in.

### *Description of Fig. No. 5.*

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THE cut shown on opposite page is essentially the same as Fig. No. 4, with the exception that it is provided with an iron mat to conceal any superfluous opening which may be left after insertion of box in wall.

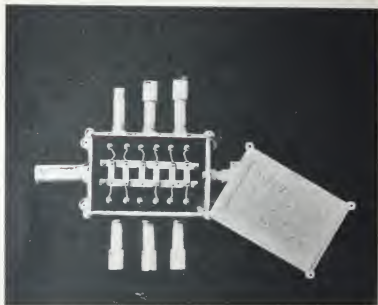
The same materials are used in the construction of this box as are used in previously described boxes.

Prices same as Fig. No. 4.

Price of mat (extra,) \$1.50.

FIG. No. 6.

Patented January 7, 1896.



DIMENSIONS.

Length, 10 $\frac{1}{2}$ in.	Width, 7 in.	Depth, 2 $\frac{1}{2}$ in.
Distance from front to centre of Conduit, . . . . .		.1 in.
Distance from back to centre of Conduit, . . . . .		.1 $\frac{1}{2}$ in.

### *Description of Fig. No. 6.*

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FIG. No. 6 represents a branch circuit junction box, adapted for brass and iron armored conduit work. From two to seven branches can be supplied from it. It is very compact and substantial, being constructed wholly of iron and slate, and provided with fuse and wire terminals. As will be seen from cut, the cover is fastened with screws, and should a water-proof box of this description be required, provision is made on lid for the insertion of a rubber gasket.

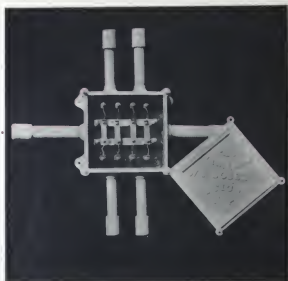
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#### PRICE.

Box with plain slate and metal work dipped,	\$4.50
Box with enameled slate and metal work dipped,	5.00

FIG. No. 7.

Patented January 7, 1896.



DIMENSIONS.

Length, 7 $\frac{1}{4}$ in.	Width, 7 $\frac{1}{4}$ in.	Depth, 2 $\frac{1}{2}$ in.
Distance from front to centre of Conduit,.....	.....	.....1 in.
Distance from back to centre of Conduit,.....	.....	.....1 $\frac{1}{2}$ in.

### *Description of Fig. No. 7.*

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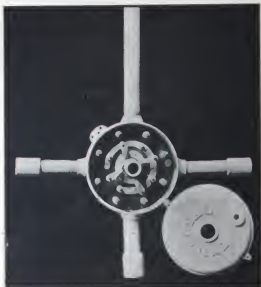
THIS Box is similar in its work to cut No. 6. It can supply from one to five circuits, as the case may require. The construction throughout is an exact copy of Fig. No. 6, with a smaller number of circuits.

#### PRICE.

Box with plain slate, and metal work dipped, .....	\$3.75
Box with enameled slate, and metal work dipped, .....	4.25

FIG. No. 8.

Patented January 7, 1896.



DIMENSIONS,

SIX INCHES.

Distance from front to centre of Conduit, .....  $\frac{3}{4}$  in.  
Distance from back to centre of Conduit, .....  $1\frac{1}{4}$  in.



## *Description of Fig. No. 8.*

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THIS cut represents a branch circuit junction box for combination gas and electric fixtures. It is adapted for either brass or iron armored conduit, and supplies four branches or less, having wire and fuse terminals for that number. If four circuits should be required for any combination fixture, holes may be drilled in cover and porcelain bushings inserted for protection of wire. Centre opening in box and cover (allowing connection to be made between chandelier and gas pipe,) is so constructed that box, when in use, forms an air-tight fire-proof chamber. The cover of box projects a trifle below ceiling, and is easily concealed by canopy of chandelier.

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### PRICE.

Box with plain slate, and metal work dipped, .....	\$3.50
Box with enameled slate, and metal work dipped and laquered, .....	4.00

FIG. No. 9.

Patented January 7, 1896.



DIMENSIONS OF BOX.

Width, 6 in.

Height, 4 in.

Depth, 2½ in.

Distance from front to centre of Conduit,.....1 in.  
 Distance from back to centre of Conduit,.....1½ in.

*Fig. No. 9.*

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THIS cut represents also a branch circuit junction box for combination gas and electric fixtures, and is intended for side lights. It may be used either for brass or iron armored conduit, and will supply from one to three circuits.

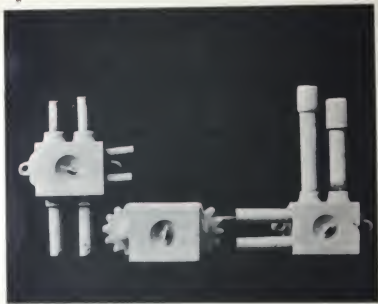
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**PRICE.**

Box with plain slate, and metal work dipped, . . . . .	\$2.75
Box with enameled slate, and metal work dipped and laquered, . . . . .	3.25

FIG. Nos. 10-11-12.

Patent applied for.



DIMENSIONS OF BOXES.

Length,  $3\frac{1}{2}$  in.

Width,  $2\frac{1}{2}$  in.

Depth,  $1\frac{1}{4}$  in.

Distance from front of box to centre of Conduit,


$\frac{1}{4}$  in.

Distance from back of box to centre of Conduit,

$\frac{1}{4}$  in.

### *Description Fig. Nos. 10-11-12.*

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 UTS Nos. 10-11-12, represent switch boxes for brass and iron armored are made to be used in the installation of electric light in old or conduit, and completed buildings, where it is not allowed to cut plaster or walls for the insertion of boxes. Fig. No. 10 and 12 show plainly how connections are made, while in Fig. No. 11 connections are made from the rear. The boxes are constructed of iron, and will receive snap switches from 5 to 15 amp. Covers are furnished either in polished brass, bronze, or nickel plate.

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### **PRICE.**

Box Fig. 10-11-12, without switch,.....	\$ .75
Box Fig. 10-11-12, with switch and cover,.....	2.00

**FIG. No. 13.**

**Patent applied for.**



**DIMENSIONS OF BOX.**

Length,  $5\frac{1}{2}$  in.      Width,  $3\frac{1}{2}$  in.      Depth,  $3\frac{1}{4}$  in.

Distance from front to centre of Conduit, .....  $2\frac{1}{4}$  in.  
Distance from back to centre of Conduit, ..... 1 in.

### *Description Fig No. 13.*

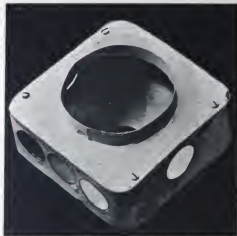
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FIG. No. 13 represents also a switch box, and is intended to be used for brass and iron conduit, and set flush with wall. It is drawn wholly from steel, enameled inside and outside to prevent rusting, and to form a non-conductor. It is designed to be used in connection with "Steveus" and C. S. flush switches. As will be noticed in cut, screw holes for fastening cover to box are elongated so that switch plate can be set straight, even if box should be otherwise. The box is provided with holes punched at various places, each hole not used is plugged again securely with steel, making the box water-tight, and fire-proof. Should any other hole be required for use than the one left, it is but a simple matter to remove steel plug and reset same. No screw threads are provided in this box for conduit, but the same are secured by a simple fastener, which is furnished with each box.

Price, - - - 60 cents.

FIG. No. 14.

Patent applied for.



DIMENSIONS.

Square,  $4\frac{1}{2} \times 4\frac{1}{2}$  in.

Depth,  $1\frac{3}{4}$  in.

Distance from front to centre of Conduit,.....  $\frac{3}{4}$  in.

Distance from back to centre of Conduit,..... 1 in.



### *Description of Fig. No. 14.*

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FIG. No. 14 is a steel drawn wall outlet box, and can be used for either brass or iron armored conduit, and is adapted to be set flush with wall. It is provided with a number of holes for the insertion of conduit in the back and sides, and enameled same as Fig. No. 13. The insertion of plugs in holes is similar as described on previous page, and is accomplished by special machinery. The size of holes in previous, this, and following cuts, we make for any size conduit. This box can also be used for combination fixtures, provision being made in bottom of box to fasten fixture to same.

Price, - - - 50 cents.

FIG. No. 15.

Patent applied for.



DIMENSIONS,

4 inches.

Depth,  $1\frac{1}{2}$  in.

Distance from front to centre of Conduit,

Distance from back to centre of Conduit,

$\frac{1}{2}$  in.

.1 in.

### *Description of Fig. No. 15.*

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FIG. No. 15 is a steel drawn ceiling outlet box for either brass or iron armored conduit. Cut only shows holes in bottom, but if holes are also needed on side they can easily be provided. The box is enameled, and description of holes, plugs, and fastening of conduit, as given in Figs. No. 13 and 14, applies to this. The covers on this and the two last described boxes are fastened with screws, and can easily be removed.

Price, - - - 50 cents.

